**Technical Specification**

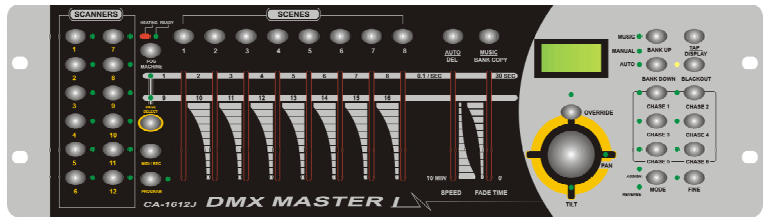
| | |
|---|---|
| Power Input | DC 9V , 300 mA min. |
| DMX Input | 3 pin male XLR |
| DMX Output | 3 pin female XLR |
| MIDI Signal | 5 pin standard interface |
| Audio Input | By built-in microphone or line in |
| Dimensions | 482x132x73mm |
| Weight(appro.) | 2.5 kg |

**Innovation , Quality , Performance**

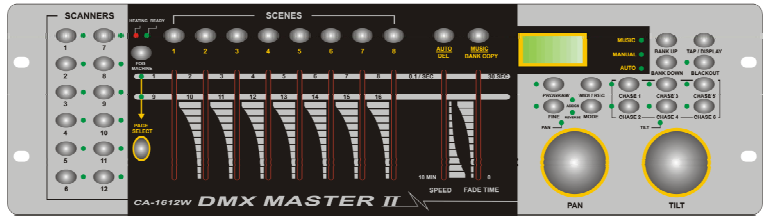
# DMX MASTER

Professional Lighting Technology

***DMX MASTER I*** CA-1612J




***DMX MASTER II*** CA-1612W




# User Guide

*Please read these instructions carefully before use*

Note



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## 1. Features

A. 192 DMX channels.

B. 12 scanners of 16 DMX channels.

C. 30 banks of 8 programmable scenes.

D. 6 chases of 240 programmed scenes from 30 banks

E. 8 faders for manual control

F. All data can be sent or received between two units

G. Auto programs(scenes and chases) under control by Speed(or Tap Sync) and Fade Time sliders

H. Fade Time/Assign Fade Time

I. The scanners under control by Pan and Tilt jog wheels

J. Fine adjustment of the Pan and Tilt

K. Reverse DMX channels causing the faders to control the output reversely

L. Preview assigned or reversed DMX channels

M. 8 CH./16 CH. mode for Assigned or Reversed DMX channels

N. Blackout master

O. Manual override

P. Built-in microphone for Music triggering

Q. MIDI control over banks, chases and Blackout

R. LCD display

S. DMX polarity select

T. Power failure memory



3B

**EC Declaration of Conformity**

We declare that our products (lighting equipments) comply with the following specification and bears CE mark in accordance with the provision of the Electromagnetic Compatibility (EMC) Directive 89/336/EEC.

EN55014-2: 1997 A1:2001, EN61000-4-2: 1995; EN61000-4-3:2002;

EN61000-4-4: 1995; EN61000-4-5: 1995, EN61000-4-6:1996,

EN61000-4-11: 1994.

&

**Harmonized Standard**

EN60598-1: 2000+ALL:2000+A12:2002

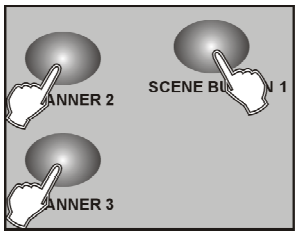
Safety of household and similar electrical appliances

Part 1 : General requirements

## 4-8 Send File Dump

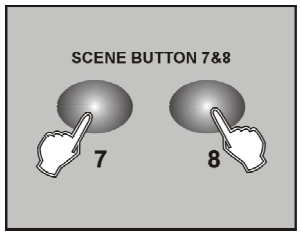
***NOTE***

*You must set up proper connection before you can send or receive the file dump.*




1. With the power off, press and hold down the Scanner buttons 2, 3 and Scene button 1 at a time.

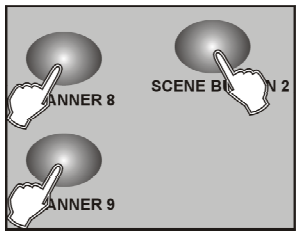
2. Apply the power again while pressing these three buttons, the LCD shows "TRANSMIT" indicating this unit is ready to send the file dump.




3. Press the Scene buttons 7 and 8 at a time to send the file dump.

4. During the course of sending, if malfunction occurs, the sending will be interrupted and the LCD shows "ERROR".

## 4-9 Receive File Dump




1. With the power off, press and hold down the Scanner buttons 8, 9 and Scene button 2 at a time.

2. Apply the power again while pressing these three buttons, the LCD shows "RECEIVE" indicating this unit is receiving the file dump.

3. When receiving is over, this unit will return to the normal mode.



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## 2. General Instructions

Please read the user manual carefully, as it includes important information regarding details of operation, maintenance, and technical data. Keep this manual with the unit for future consult.

**WARNINGS！**

- **DO NOT make any inflammable liquids, water or metal objects enter the unit.**
- **Should any liquid be spilled on the unit, DISCONNECT the power supply to the unit immediately.**
- **STOP using the unit immediately In the event of serious operation problems and either contact your local dealer for a check or contact us directly.**
- **DO NOT open the unit--there are no user serviceable parts inside.**
- **NEVER try to repair the unit yourself. Repairs by unqualified people could cause damage or faulty operation. Contact your nearest dealer.**

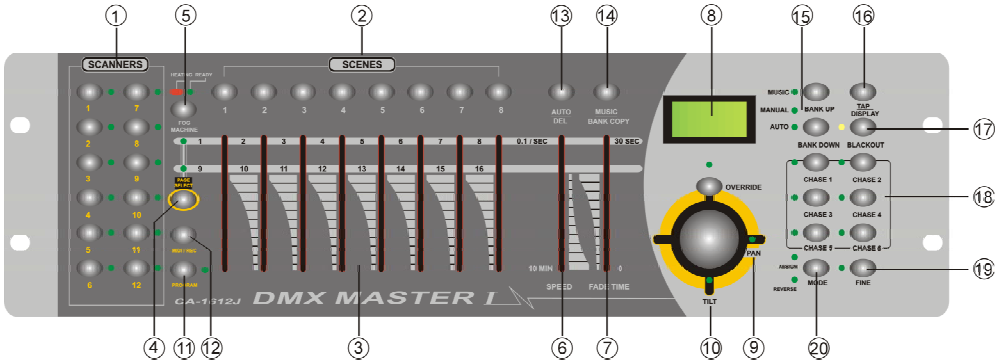
**CAUTIONS！**

- **This unit is NOT intended for home use.**
- **After having removed the packaging check that the unit is NOT damaged in any way. If in doubt, DON'T use it and contact an authorized dealer.**
- **Packaging material (plastic bags, polystyrene foam, nails, etc.) MUST NOT be left within children's reach, as it can be dangerous.**
- **This unit must only be operated by adults. DO NOT allow children to tamper or play with it.**
- **NEVER use the unit under the following conditions:**
  **In places subject to excessive humidity.**
  **In places subject to vibrations or bumps.**
  **In places with a temperature of over 45 C/113 F or less than 2 C/35.6 F.**
  **Protect the unit from excessive dryness or humidity (ideal conditions are between 35% and 80%).**
- **DO NOT dismantle or modify the unit.**

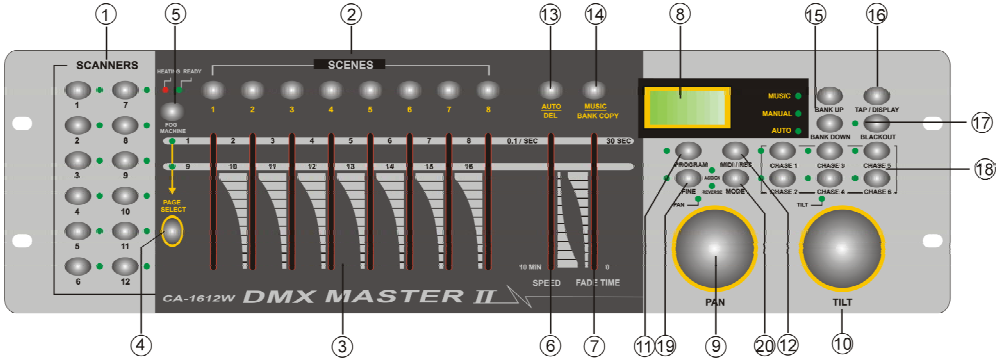
## 3. Overview

### 3-1. Front View

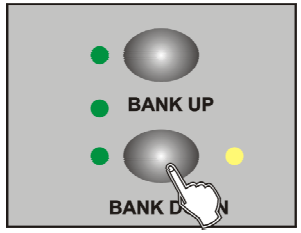
**CA-1612J**



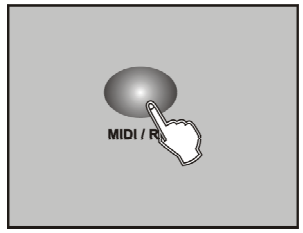

**CA-1612W**






2. Use the Bank Up/Down button to select the DMX channel 01-16 to assign to MIDI channel.



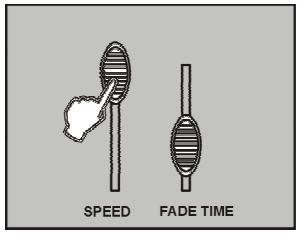
3. Press and hold down the MIDI/Rec button for three seconds to store your setting and to deactivate MIDI setting.

To cancel your setting, tap any other button (except Bank Up/Down buttons) to exit MIDI mode.

### 4-7.2 Implementation

This unit receives Note On signals, which enables to run 15 banks(01-15) of scenes and 6 chases of scenes. In addition, blackout function can be activated by MIDI signal.

| BANK | NOTE NUMBER | FUNCTION |
|---|---|---|
| Bank 1 | 00 to 07 | Turn on or off Scenes 1-8 of Bank 1 |
| Bank 2 | 08 to 15 | Turn on or off Scenes 1-8 of Bank 2 |
| Bank 3 | 16 to 23 | Turn on or off Scenes 1-8 of Bank 3 |
| ……. | ……. | …… |
| Bank 14 | 104 to 111 | Turn on or off Scenes 1-8 of Bank 14 |
| Bank 15 | 112 to 119 | Turn on or off Scenes 1-8 of Bank 15 |
| Chase 1 | 120 | Turn on or off Chase 1 |
| Chase 2 | 121 | Turn on or off Chase 2 |
| Chase 3 | 122 | Turn on or off Chase 3 |
| Chase 4 | 123 | Turn on or off Chase 4 |
| Chase 5 | 124 | Turn on or off Chase 5 |
| Chase 6 | 125 | Turn on or off Chase 6 |
| | 126 | Blackout |

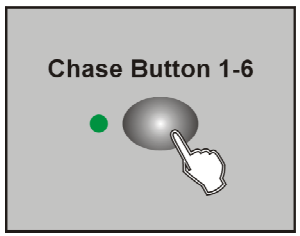



3. Use the Speed slider(or Tap Sync) and Fade Time slider to adjust the chase to your desired effects.

You may select several chases at a time, the chases will run in sequence that you select the chases.

## 4-6.3 Music Mode

1. Tap the Music/Bank Copy button to activate Music mode, the Music LED lights indicating Music mode is active.

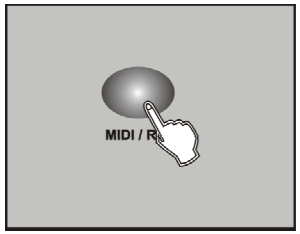



2. Select your desired chase by tapping one of the six Chase buttons, the chase will be triggered by the music rhythms.

You may select several chases at a time.

## 4-7 MIDI Operation

## 4-7.1 MIDI Channel Setting




1. Press and hold down the MIDI/Rec button for three seconds, the LCD show the MIDI channel of last time.



**1. Scanner Buttons(1-12)**

12 scanners of 16 DMX channels & fader control

| Scanners | DMX channels | Fader control | LED |
|---|---|---|---|
| 1 | 1-16 | Off | Off |
| 2 | 17-32 | Off | Off |
| 3 | 33-48 | Off | Off |
| 4 | 49-64 | Off | Off |
| 5 | 65-80 | Off | Off |
| 6 | 81-96 | Off | Off |
| 7 | 97-112 | Off | Off |
| 8 | 113-128 | Off | Off |
| 9 | 129-144 | Off | Off |
| 10 | 145-160 | Off | Off |
| 11 | 161-176 | Off | Off |
| 12 | 177-192 | Off | Off |

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| Scanners | DMX channels | Fader control | LED |
|---|---|---|---|
| 1 | 1-16 | On | On |
| 2 | 17-32 | On | On |
| 3 | 33-48 | On | On |
| 4 | 49-64 | On | On |
| 5 | 65-80 | On | On |
| 6 | 81-96 | On | On |
| 7 | 97-112 | On | On |
| 8 | 113-128 | On | On |
| 9 | 129-144 | On | On |
| 10 | 145-160 | On | On |
| 11 | 161-176 | On | On |
| 12 | 177-192 | On | On |

Press a scanner button to turn on manual fader control. Press the scanner button again to turn off fader control. The LED besides the button lights or goes out to indicate this selection.

**2. Scene Buttons** Press the scene buttons to load or stored your scenes. There are a maximum of 240 programmable scenes.

**3. Faders** These faders are used to control the intensity of channel 1-8 or channel 9-16 depending upon the selected page.

**4. Page Select Button** Used to select page between Page A(1-8) and Page B(9-16).

**5. Fog Machine Button** Activates Fog Machine .

**6. Speed Slider** Used to adjust the chase speed within the range of 0.1 second to 10 minutes.

**7. Fade Time Slider** Used to adjust the fade time. Fade time is the amount of time it takes for a scanner(or scanner) to move from one position to another, for the dimmer to fade in or fade out.

**8. LCD Display** Shows the current activity or programming state.

**9. Pan Wheel** This jog wheel is used to control the pan of the scanner or for programming.

**10. Tilt Wheel** This jog wheel is used to control the Tilt of the scanner or for programming.

**11. Program Button** Activates Program mode.

**12. MIDI/Rec** Used to control MIDI operation or to record programs.

**13. Auto/Del** Activates Auto mode or to delete scenes or chases.

**14. Music/Bank Copy** Activates Music mode or to copy a bank of scenes

**15. Bank Up/Down** Press the Up/Down button to select from 30 banks.

**16. Tap/Display** Used to create a standard beat or to change the value mode between % and 0-255.

**17. Blackout Button** Tap to momentarily pause whole output.

**18. Chase Buttons(1-6)** These buttons are used for activating the chase of programmed scenes.

**19. Fine Button** When Fine is on, the Pan or Tilt wheel will control the scanner in the smallest increment.

**20. Mode Button** Pressing Fine and Mode buttons allows to activate Assign or Reverse mode.



## 4-6 Running Chases

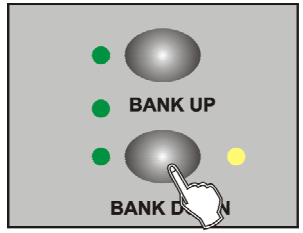
**You must program scenes before you can run chases.**

### 4-6.1 Manual Mode

1. When the power is turned on, this unit enters Manual mode automatically.

2. Select your desired chase by tapping one of the six Chase buttons. A second tap of this button will deactivate this function.

3. Use the Fade Time slider to adjust the current scenes to your desired effects.




4. Use the Bank Up/Down button to run the chase step by step.

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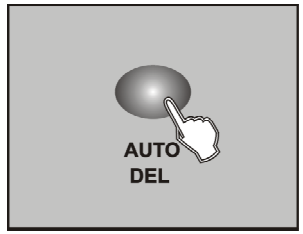
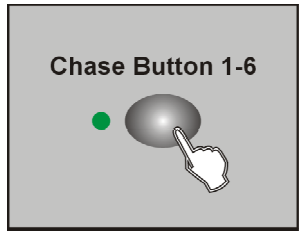
### 4-6.2 Auto Mode



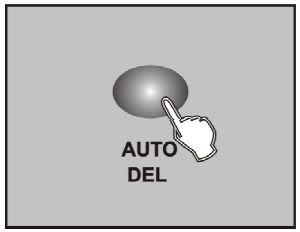

1. Tap the Auto/Del button to activate Auto mode.The Auto LED lights indicating Auto mode is active.




2. Select your desired chase by tapping one of the six Chase buttons. A second tap of this
button will deactivate this function.

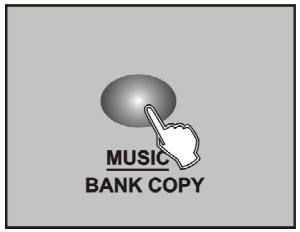
***Hints:***

*The Tap Sync button is used to set the speed by tapping the button several times, the last two taps will define the speed with a maximum of 10 minutes. Tap Sync will override any previous setting of the Speed slider unless the slider is moved again.*

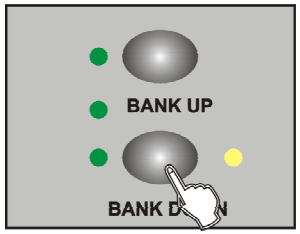



4. Tap the Auto/Del button again to exit Auto mode .

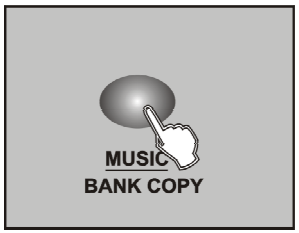
## 4-5.3 Music Mode




1. Tap the Music/Bank Copy button to activate Music mode. The Music LED lights indicating Music mode is active.



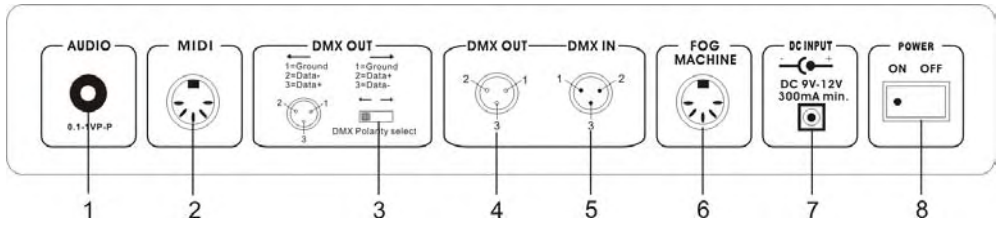

2. Use the Bank Up/Down button to select the bank that holds the scenes you wish to run. The scenes you've selected will chase in a sequential order according to the music rhythms detected by the built-in microphone.




3. Tap the Music/Bank Copy button again to exit Music mode.



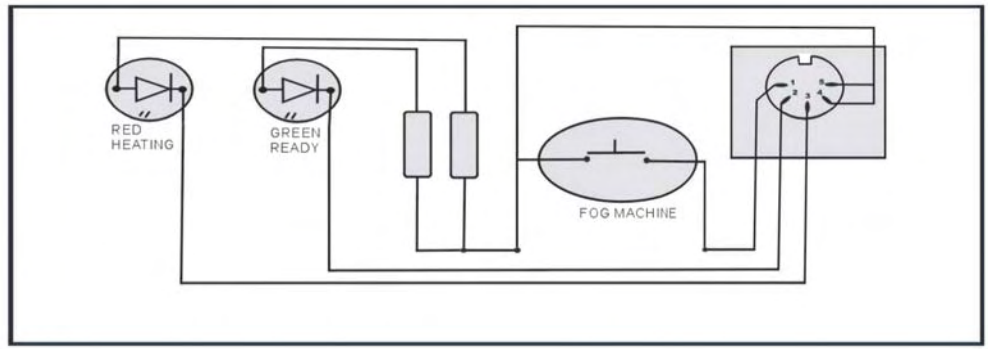
## 3-2 Rear View




| | |
|---|---|
| **1. AUDIO IN** | 0.1V~1Vp-p. |
| **2. MIDI IN** | Receives MIDI data. |
| **3. DMX Polarity Select** | Used to select DMX polarity. |
| **4. DMX Out** | This connector sends your DMX value to the DMX scanner or DMX pack. |
| **5. DMX In** | This connector accepts your DMX input signals. |
| **6. Fog Machine Connector** | This connector is used to plug in the Fog Machine. |
| **7. DC Input** | DC 9 -12V, 300mA min. |
| **8. Power Switch** | This switch turns On/Off the power. |

8B

## Fog machine diagram



## 4. Operation Guide

### General

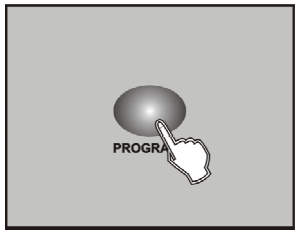
This unit allows you to program 12 scanners of 16 DMX channels, 30 banks of 8 programmable scenes, 6 chases of 240 programmed scenes using 8 faders and other function buttons. With the use of two jog wheels, you may easily control the Pan or Tilt of the scanners. To tailor your special effect lighting, this unit enables you to Assign or Reverse the DMX channels. In addition, two units can set up communication so that they can send or receive file dump.

### Display Information

The LCD Display contains a maximum of 2x8 characters.

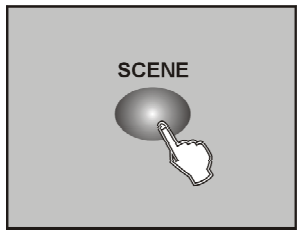
| LCD Display | Message |
|---|---|
| CHASE 5 | Chase 5 is activated. |
| STEP 002 | The 2nd step of a chase |
| DATA 151 | DMX value(000-255) |
| SP: 1M36S | The current speed is 1 minute and 36 seconds |
| TP: 5.32S | The time of the last two taps is 5.32 seconds |
| FT: 10.5S | Fade Time is 10.5 seconds |
| ASS 07 08 | Assign DMX channels 7 and 8 |
| RES 10 13 | Reverse DMX Channels 10 and 13 |
| SN 6 | Scene 6 |
| BK 03 | Bank 03 |

### 4-1 Program Enable




When the power is turned on, this unit enters Manual mode automatically.
Press the Program button for three seconds to activate Program mode, the LED near to this button lights indicating Program in active.

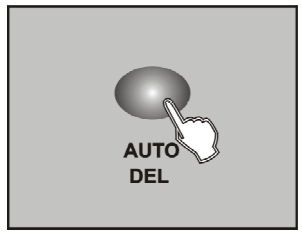




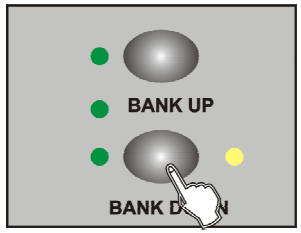

4. Tap the Scene button to select the scene to run.

### 4-5.2 Auto Mode

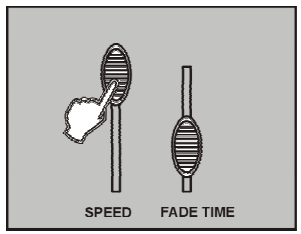
This function allows you to run a bank of programmed scenes in a sequential loop.




1. Tap the Auto/Del button to activate Auto mode.The Auto LED lights indicating Auto mode is active.




2. Use the Bank Up/Down button to select a bank of scenes to run.

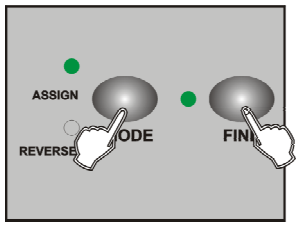



3. After selecting the bank of scenes you wish to run, you can use the Speed slider(or Tap Sync/Display button) and Fade Time slider to adjust the scenes to your desired effect.

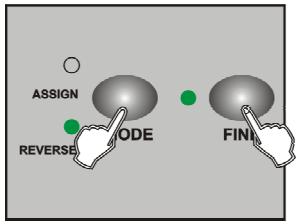


9B

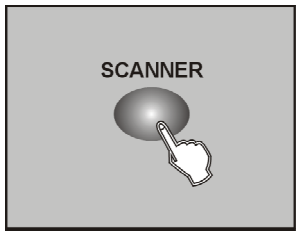
## 4-4.6 Display DMX channel




1. Press the Fine and Mode buttons at a time,the Assign LED lights.




2. Press the Fine and Mode buttons the second time,the Assign LED goes out and the Reverse LED lights.




3. Tap the Scanner button that holds the Pan and Tilt channel, the LCD shows the Pan and Tilt.

## 4-5 Running Scenes

### 4-5.1 Manual Mode

1. When the power is turned on, this unit enters Manual mode automatically.This function allows you to run a bank of programmed scenes in a sequential loop.

2. Make sure Auto and Music LEDs are both off.

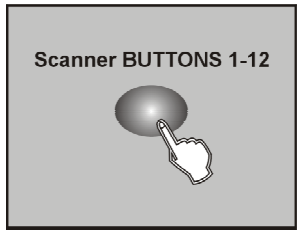
3. Use the Bank Up/Down button to select the bank that contains the scenes you wish to run.





## 4-2 Programming Scenes

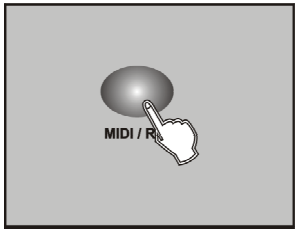
1. Enter Program mode.



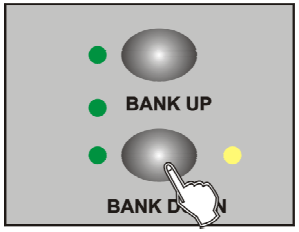

2. Press the Scanner button to turn on its fader control, which is indicated by the lit LED.
You may select several scanners at a time by tapping of these Scanner buttons, so you can set several scanners at a time.

3. Move the faders to select your desired dimmer intensity if you are using a dimmer.
You can also use the two jog wheels to control the Pan or Tilt movement of the scanner.

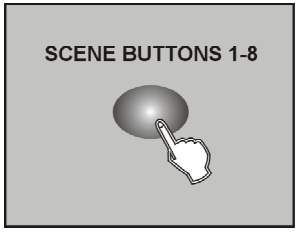
4. If necessary , you may tap the Page Select button to control the second set of 8 DMX channels.



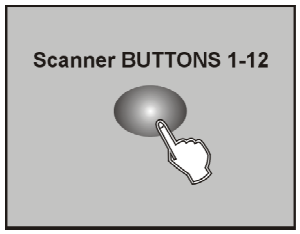
5. Once the scene is satisfactory, tap the MIDI/Rec button to program this scene into memory.



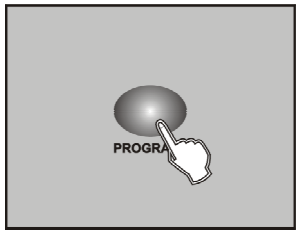

6. Tap the Bank Up/Down button to select the bank you want to store your scene into. There are total 30 banks you can select, you may store up to 8 scenes into each bank.




7. Tap the Scene button to store your scene, all LEDs and the Segment Display will flash three times briefly indicating this operation, then the LCD will show the bank and the scene




8. Repeat steps 3-7until all desired scenes have been programmed into memory .Tap the Scanner button again to turn off its fader control.To set another scanner(scanner), you may tap the corresponding Scanner button to turn on its fader control, then you may begin your programming again.

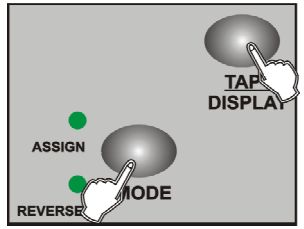



9. If you don't intend to continue your programming, press and hold down the Program button for three seconds to exit Program mode, the LED goes out indicating this selection.

***EXAMPLE: Program 8 scenes with channel 1-8 at full in sequence into bank 3 and assign these scenes to scanner 1.***

1. Program enable.
2. Tap the Scanner 1 button to turn on its fader control.
3. Tap the Page Select button to select Page A.
4. Push Fader 1 to the top position.
5. Tap the MIDI/Rec button.
6. Select bank 3 using Bank Up/Down button.
7. Tap the Scene 1 button to store the first scene.
8. Repeat steps 4-7 until all 8 scenes have been programmed into bank 3.
9. Tap the Scanner 1 button again to turn off its fader control.
10. Press the Program button for 3 seconds to exit Programming mode.



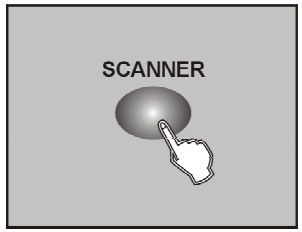



3. Press the Mode and TAP/Display buttons at a time to store your setting into memory.

If you are not going to save your setting, tap the Blackout button to leave this operation.

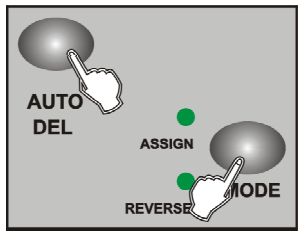
## 4-4.4 Delete a scanner of DMX channels

1. Activate Assign or Reverse mode(Described in the sub-chater 2.2.4.1 or 2.2.4.2).




2. Tap the Scanner button to select the scanner you wish to delete.

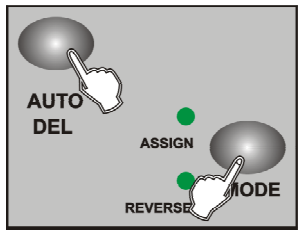





3. Press the Mode and Auto/Del buttons at a time,all LEDs should flash briefly, indicating the scanner is deleted.

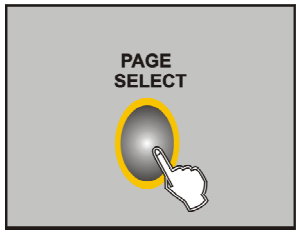
## 4-4.5 Clear all DMX channels

1. Turn the power off.

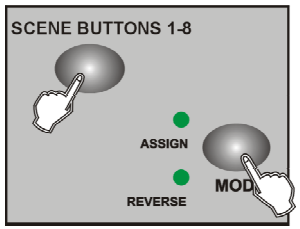



2. Press the Mode and Auto/Del buttons at a time.

3. While pressing the two buttons, apply the power again, all LEDs should flash briefly,indicating all assigned or reversed DMX channel are cleared.



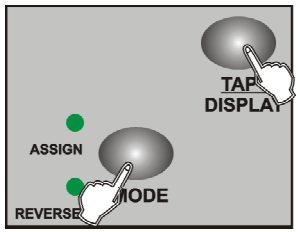

6. Tap the Page Select button to select Page A or Page B.



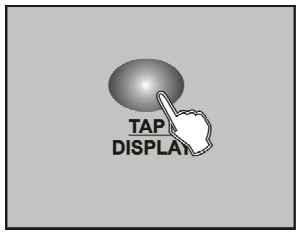

7. While pressing the Mode button, tap the Scene button, all LEDs should flash briefly indicating the DMX channel is reversed.( Scene button 1 stands for DMX channel 1, Scene button 2 stands for DMX channel 2, and so on.)

8. Continue steps 3-7 , you may reverse a maximum of 48 DMX channels for 12 scanners.

## 4-4.3 Fade Time/Assign Fade Time




1. With the power off, press the Mode and TAP/Display buttons at a time.



2. Apply the power again, tap the TAP/Display button to change between Fade Time and Assign Fade Time, the LCD reads

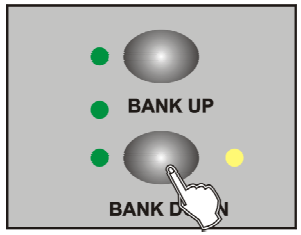
| ALL CH | or | ONLY X/Y |
|---|---|---|
| FD TIME | | FD TIME |



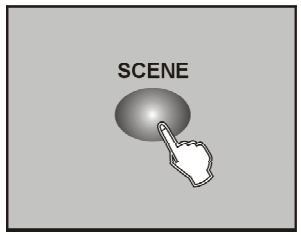


## 4-2.1 Scene Editing

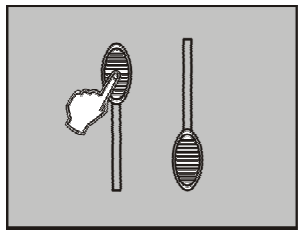
1. Program enable.



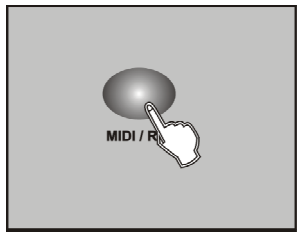

2. Tap the Bank Up/Down button to select the bank that contains the scene you wish to edit.



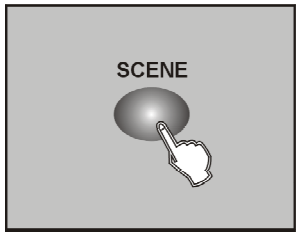

3. Select the scene you want to edit by tapping its Scene button.



4. Use the Faders or jog wheels to make your desired adjustments.



5. Once you've made your changes, tap the MIDI/Rec button



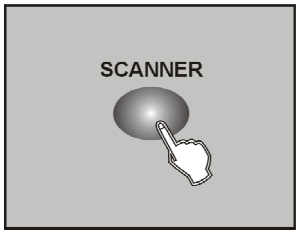

6. Tap the Scene button that corresponds to the scene you're editing. This will overwrite the exited scene

***NOTE:***

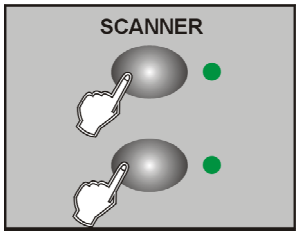
***Be sure to select the same scene in steps 3 and 6, otherwise you may accidentally record over an exited scene.***

## 4-2.2 Scanner Copy

This function allows you to copy the settings of one scanner to another.




1. Press and hold down the Scanner button you want to copy.



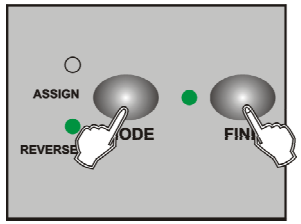

2. While holding the Scanner button, tap the Scanner button you want to copy to.



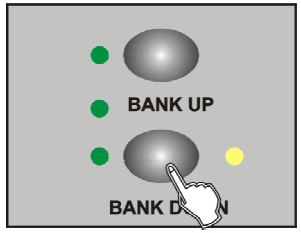
13B

## 4-4.2 Reverse DMX channel

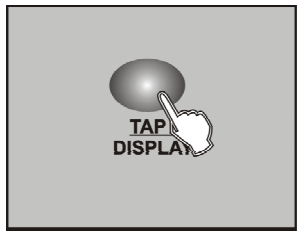
1. Program enable.



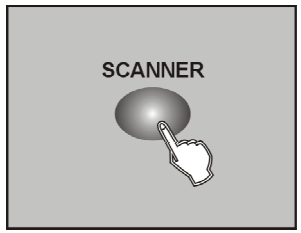

2. Press the Fine and Mode buttons the second time, the Reverse LED lights up indicating Reverse mode is active.



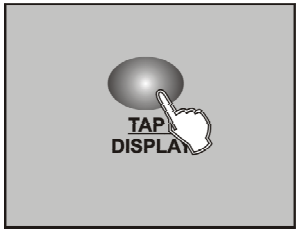

3. Use Bank Up/Down button to change between the Pan and Tilt, the corresponding LED lights indicating this selection.



4. Tap the Tap/Display button to change between 8 CH. and 16 CH. mode.

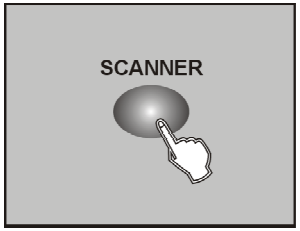



5. Tap the Scanner button to select the scanner.

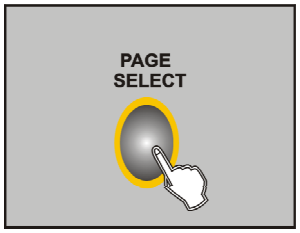



4. Tap the Tap/Display button to change between 8 CH. and 16 CH. mode, the LCD reads

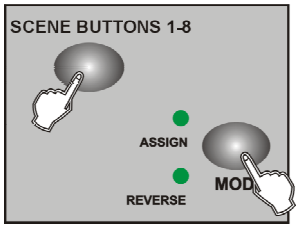
| ASSXX XX | or | ASSXX XX |
|---|---|---|
| X/Y X/Y | | 08CH 16CH |




5. Tap the Scanner button to select the scanner.




6. Tap the Page Select button to select Page A or Page B.



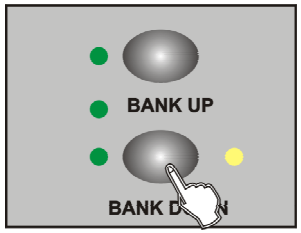

7. While pressing the Mode button, tap the Scene button, all LEDs should flash briefly indicating the DMX channel is assigned.( Scene button 1 stands for DMX channel 1, Scene button 2 stands for DMX channel 2, and so on.)

8. Continue steps 3-7 , you may assign a maximum of 48 DMX channels for 12 scanners.

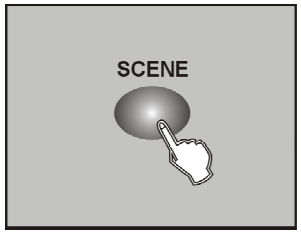


## 4-2.3 Scene Copy

1.Program enable.

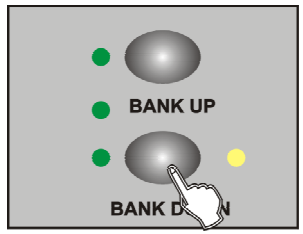



2. Tap the Bank Up/Down button to select the bank that contains the scene you wish to copy.

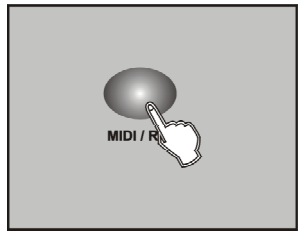



3. Select the scene you want to copy by tapping its Scene button

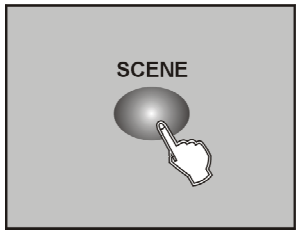





4. Tap the Bank Up/Down button to select the bank you wish to copy the scene to.



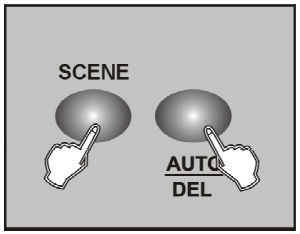
5. Tap the MIDI/Rec button.




6. Tap the Scene button you wish to copy the scene to.

## 4-2.4 Delete a Scene

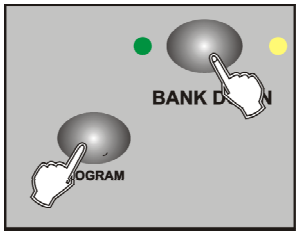
1. Tap the desired Scene button to select the scene you wish to delete




2. Press and hold down the Auto/Del button.While holding down the Auto/Del button, tap the Scene button that stores the scene you wish to delete.

## 4-2.5 Delete all Scenes

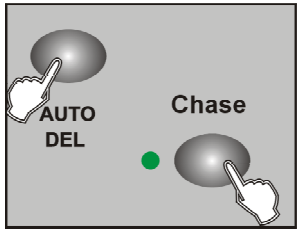
This function will reset all DMX channel to 0 output.



1. With the power off, press and hold down the Program and Bank Down buttons at a time.

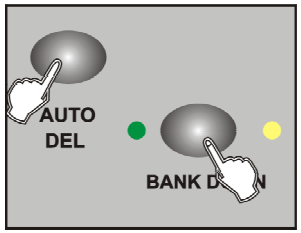
2. Apply power again, all scenes should be cleared.






2. Press and hold down the Auto/Del button. Tap the Chase button while holding down the Auto/Del button, all LEDs will flash three times briefly indicating this chase has been deleted.

## 4-3.5 Delete all Chases




1. With the power off, press and hold down the Auto/Del and Bank Down buttons at the same time.

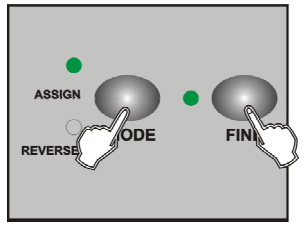
2. Apply the power again.

## 4-4 Assign/Reverse DMX channel

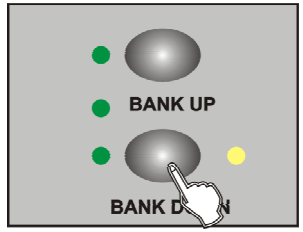
15B

## 4-4.1 Assign DMX channel

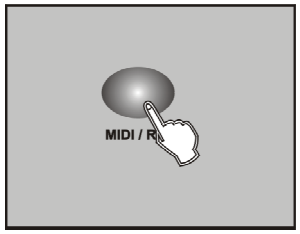
1. Program enable.




2. Press the Fine and Mode buttons at a time,the Assign LED lights up indicating Assign mode is active.



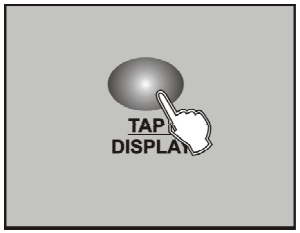

3. Use Bank Up/Down button to change between the Pan and Tilt, the corresponding LED lights indicating this selection.




7. Tap the MIDI/Rec button again , all LEDs will flash three times briefly indicating the new step has been inserted into this chase.

## 4-3.3 Delete a Step

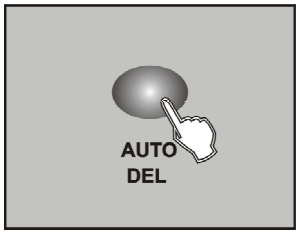
1. Program enable.




2. Select the chase that contains the step you wish to delete.

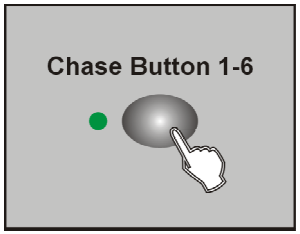
3. Tap the Tap/Display button, the LCD shows the current step.

4. Tap the Bank Up/Down button to scroll to the step you wish to delete.




5. Tap the Auto/Del button to delete the step, all LEDs will flash three times briefly indicating that the step has been deleted.

## 4-3.4 Delete a Chase




1. Select the chase you wish to delete.



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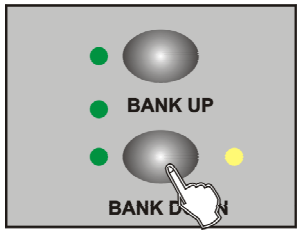
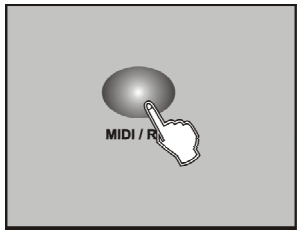
## 4-2.6 Bank Copy

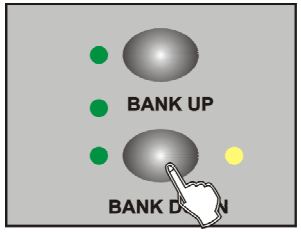
1. Program enable.




2. Tap the Bank Up/Down button to select the bank you wish to copy.




3. Tap the MIDI/Rec button.




4. Tap the Bank Up/Down button to select the bank you wish to copy to.

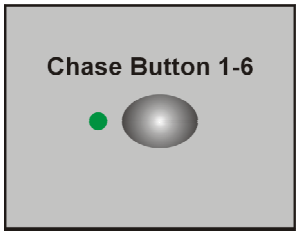
5. Tap the Music/Bank Copy button, all LEDs will will flash three times briefly indicating the function has been completed.

6. Press the Program button for three seconds to exit Programming mode.

## 4-3 Programming Chase

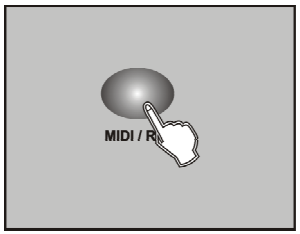
You must program scenes before you can program chases, this function allows you to store up to 240 scenes into one chase.

1. Program enable.




2. Tap the Chase button to select the chase to program. Each time you can select a chase only.

3. Select a desired scene from the bank that has stored scenes.(described in Programming Scenes)

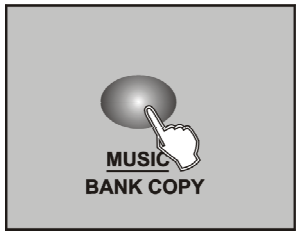


4. Tap the MIDI/Rec button.

5. Repeat steps 3-4 until you've reached your desired effect. You may record up to 240 scenes into a chase.

### 4-3.1 Program a bank of scenes into a Chase

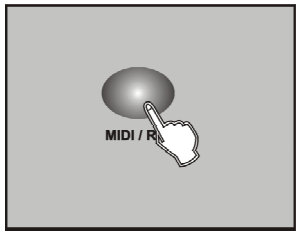
1. Program enable.




2. Select the chase using Chase buttons 1-6.

3. Use Bank Up/Down button to select the bank that contains the scenes you wish to copy.

4. Tap the Music/Bank Copy button.



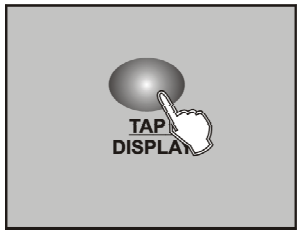
5. Tap the MIDI/Rec Copy button, all LEDs will flash three times briefly indicating all 8 scenes in this bank have been programmed into this chase.





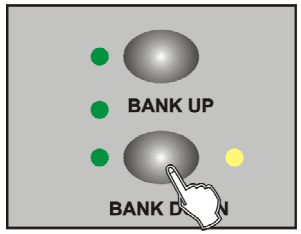
### 4-3.2 Add a Step

1. Program enable.

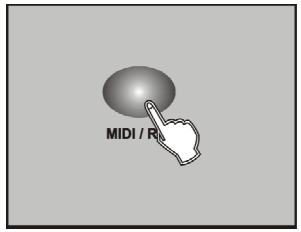


2. Select the chase you wish to add a step to.

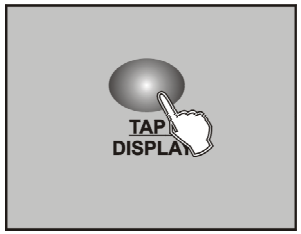
3. Tap the Tap/Display button, the LCD shows the current step.




4. Tap the Bank Up/Down button to scroll to the step you wish to add a step after.



5. Tap the MIDI/Rec button, the Segment Display will read the step one higher than before.
For example, if you want to insert a step between step 3 and step 4, and you scroll to step 3, when you tap the MIDI/Rec button, the LCD will read "STEP 004".



6. Tap the Tap/Display button again, the LCD shows the current chase, scene and bank.Create a desired scene and record it as a new step or select a programmed scene you wish to add into this chase.

***Hints:*** *You may tap the Tap Sync/Display button to change the display mode between step and the bank.*